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January 19, 2006

Ms. Joan Fleck
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Blvd., Suite A
Santa Rosa, California 95403

Subject: **Fourth Quarter 2005 Groundwater Monitoring Report**
Former Dave's Pit Stop No. 1
164 Calistoga Road, Santa Rosa, California
Apex Project No. ERA02.028

Dear Ms. Fleck:

Apex Envirotech, Inc. (Apex), has been authorized by Dave's Pit Stop (Pit Stop) to provide this report documenting the results of the fourth groundwater monitoring event conducted on December 1, 2005. Groundwater monitoring results are provided in the attached figures and tables. Apex standard operating procedures, field data, and analytical results are provided as attachments.

This report is based in part on information obtained by Apex from Pit Stop, and is subject to modification as newly acquired information may warrant.

BACKGROUND

The site is located approximately 500 feet north of the intersection of California Highway 12 and Calistoga Road in the City of Santa Rosa, California. Facilities at this location currently house an automobile repair shop. The site was formerly used as a retail gasoline service station.

1989 - One 550-gallon used-oil underground storage tank (UST) and associated piping were excavated and removed from the site. Soil samples collected from beneath the tank contained detectable concentrations of petroleum hydrocarbons

June 1990 - Subsurface investigation began at the site.

1996 - Four shallow groundwater monitoring wells existed on the site (MW-1 through MW-4).

February 1999 - One 6,000 and two 10,000-gallon gasoline USTs and two fuel dispenser islands were excavated and removed from the site. Approximately 1,003 tons of petroleum hydrocarbon contaminated soil was over excavated from the UST pit. Following removal, this material was transported off-site for disposal. A total of 70,000 gallons of hydrocarbon contaminated groundwater was removed from the UST pit to facilitate UST removal, over excavation, and backfilling activities at the site. The UST pit was closed with clean imported fill. The site does not currently possess fueling capabilities or equipment.

June 21, 2001 - The North Coast Regional Water Quality Control Board (NCRWQCB) issued a letter requesting a sensitive receptor survey including a 1,000 foot door to door survey and MTBE plume vertical and horizontal definition.

January 3, 2002 - Apex personnel supervised the installation of groundwater monitoring well MW-5 and the installation of three deep wells (DW-1 through DW-3).

November 2002 - Apex was retained as the site environmental consultant.

September 29, 2003 - Apex personnel conducted a well search with the Department of Water Resources and on October 1, 2003, and conducted a door-to-door survey within 1,000 feet of the site. Seventeen wells were identified. Results are documented in a report, titled *Sensitive Receptor Survey*, dated November 12, 2003.

December 9, 2004 - The NCRWQCB issued a letter requesting a workplan be prepared addressing the remaining groundwater and surface water impacts, as well as a request to sample the domestic well at 184 Calistoga Road. The domestic well sampling results were below detection limits.

February 21, 2005 - Apex submitted a workplan, titled *Workplan for the Installation of Ozone Sparge Remediation System*, proposing the installation of six sparge points and KVA C-Sparge system to address remaining groundwater contamination.

May 11, 2005 - The NCRWQCB issued a letter approving the workplan with recommendations to increase the depth of the sparge points to beyond 40 feet bgs, and determine baseline parameters for dissolved oxygen, ORP, temperature, pH, bromide, bromate, dissolved hexavalent, dissolved chromium, dissolved vanadium, dissolved selenium and dissolved molybdenum. In addition, Apex has been directed to distribute a public notice regarding the proposed corrective action.

GENERAL SITE INFORMATION

Site name: Former Dave's Pit Stop #1
Site address: 164 Calistoga Road, Santa Rosa, California
Responsible party: Mr. Dave Zedrick
Current site use: None
Current phase of project: Groundwater monitoring
Tanks at site: None
Number of wells: 8 monitoring wells (5 shallow, 3 deep)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date: December 1, 2005
Wells gauged and sampled: MW-2R, MW-3, MW-4, MW-5, DW-1, DW-2 and DW-3
Wells gauged only: MW-1
Wells sampled only: None
Groundwater flow direction: Shallow: West-southwest, Deep: Northeast
Groundwater gradient: Shallow: 0.025 ft/ft; Deep: 0.083 ft/ft
Surface water samples: stream locations US, MS, and DS
Floating liquid hydrocarbons: None
Laboratory: Kiff Analytical, Davis, California

Analysis Performed:

Analysis	Abbreviation	Designation	USEPA Method No.
Total Petroleum Hydrocarbons as Gasoline	TPHg	Fuel-Range Hydrocarbons	
Benzene			
Toluene			
Ethylbenzene			
Xylenes (Total)		Aromatic Volatile Organics	8260B
Methyl Tertiary Butyl Ether	MTBE	Fuel Oxygenate	

Modifications from Standard Monitoring Program:

Well MW-1 could not be sampled, due to run off filling the well box.

CONCLUSIONS

Shallow Wells

Based on groundwater analytical results, TPHg concentrations are centered at wells MW-2R and MW-3. Wells MW-3, MW-4 and MW-5 contained MTBE within historical ranges. Surface water samples collected from the Austin Creek were below laboratory detection limits. Due to steady water filling the well box at well MW-1, the well was not gauged or sampled.

Shallow zone groundwater elevations increased an average of 2.45 feet this quarter compared with the last sampling event.

Concentrations of hydrocarbons at the site have been decreasing, and are illustrated in the attached concentration versus time trend plots.

Deep Wells

Based on groundwater analytical results, deep zone well DW-1 contained MTBE only. Well DW-2 and DW-3 were non detect for all analyzed constituents.

Deep zone groundwater elevations decreased an average of 0.60 feet this quarter compared with the last sampling event.

RECOMMENDATIONS

Groundwater monitoring and creek sampling should continue on a quarterly basis. The next sampling event is scheduled for March 2006.

Apex is currently designing and permitting the installation of an ozone sparge remediation system for the site.

ADDITIONAL ACTIVITIES PERFORMED AT SITE

None

ATTACHMENTS:

- Figure 1: Site Vicinity Map
- Figure 2: Site Plan Map
- Figure 3: Shallow Zone Groundwater Contour Map: December 1, 2005
- Figure 4: Deep Zone Groundwater Contour Map: December 1, 2005
- Figure 5: Shallow Zone TPHg in Groundwater Isoconcentration Map: December 1, 2005
- Figure 6: Shallow Zone MTBE in Groundwater Isoconcentration Map: December 1, 2005
- Figure 7: Deep Zone MIBE in Groundwater Isoconcentration Map: December 1, 2005

- Table 1: Well Construction Details
- Table 2: Groundwater Elevation Data
- Table 3: Groundwater Analytical Data
- Table 4: Historical Groundwater Elevation Data
- Table 5: Historical Groundwater Analytical Data

- Appendix A: Apex Standard Operating Procedures
- Appendix B: Field Data Sheets
- Appendix C: Laboratory Analytical Report and Chain-of-Custody Form
- Appendix D: Concentration versus Time Trends

REPORT DISTRIBUTION

Apex submitted this report, in its final form, to the following:

Regulatory Oversight: Ms. Joan Fleck
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Blvd., Suite A
Santa Rosa, California 95403
(707) 576-2675

Mr. Bob Mackentyre
Santa Rosa Fire Department
955 Sonoma Avenue
Santa Rosa, California 95404
(707) 543-3500

Responsible Party: Mr. Dave Zedrick

REMARKS/SIGNATURES

The information contained in this report reflects our professional opinions and was developed in accordance with currently available information, and accepted hydrogeologic and engineering practices.

The work described in the above report was performed under the direct supervision of a professional geologist, registered with the State of California, whose signature appears below.

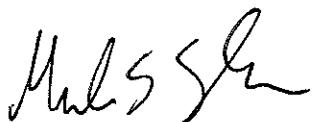
We appreciate the opportunity to provide Pit Stop with geologic, engineering, and environmental consulting services, and trust this report meets your needs. If you have any questions or comments, please call us at (916) 851-0174.

Sincerely,

APEX ENVIROTECH, INC.



Kelli Felker
Project Manager



Michael S. Sgourakis, P.G.
Senior Geologist
CPG No. 7194



FIGURES



0 0.25 0.5
Approximate Scale
1 inch = 0.25 miles



1

DRAWN BY: D. Alston
DATE: 1/27/03

REVISIONS

SITE VICINITY MAP

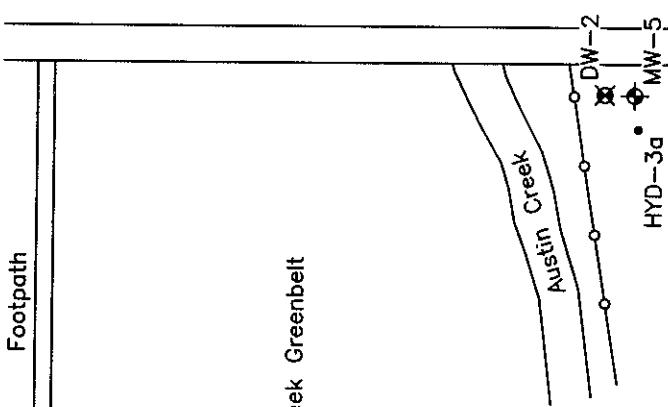
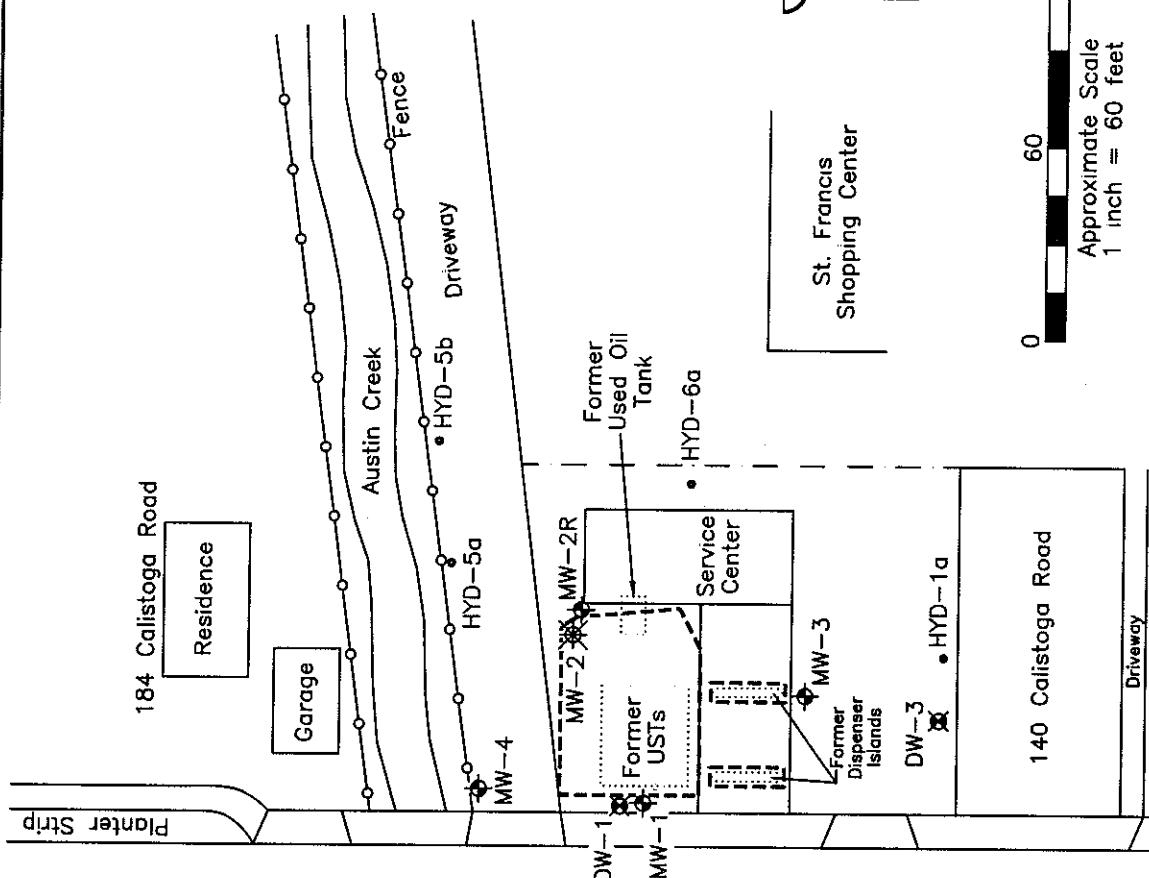
Former Dave's Pit Stop No. 1
164 Calistoga Road
Santa Rosa, California

FIGURE

1

PROJECT NUMBER:
ERA02.028





LEGEND

- Hydropunch Boring Location (November 17, 1995)
- Monitoring Well Location
- ☒ Destroyed Monitoring Well Location
- ☒ Deep Monitoring Well Location
- - - Limits Of Excavation

DRAWN BY:	D. Alston
DATE:	1/27/03
REVISIONS	



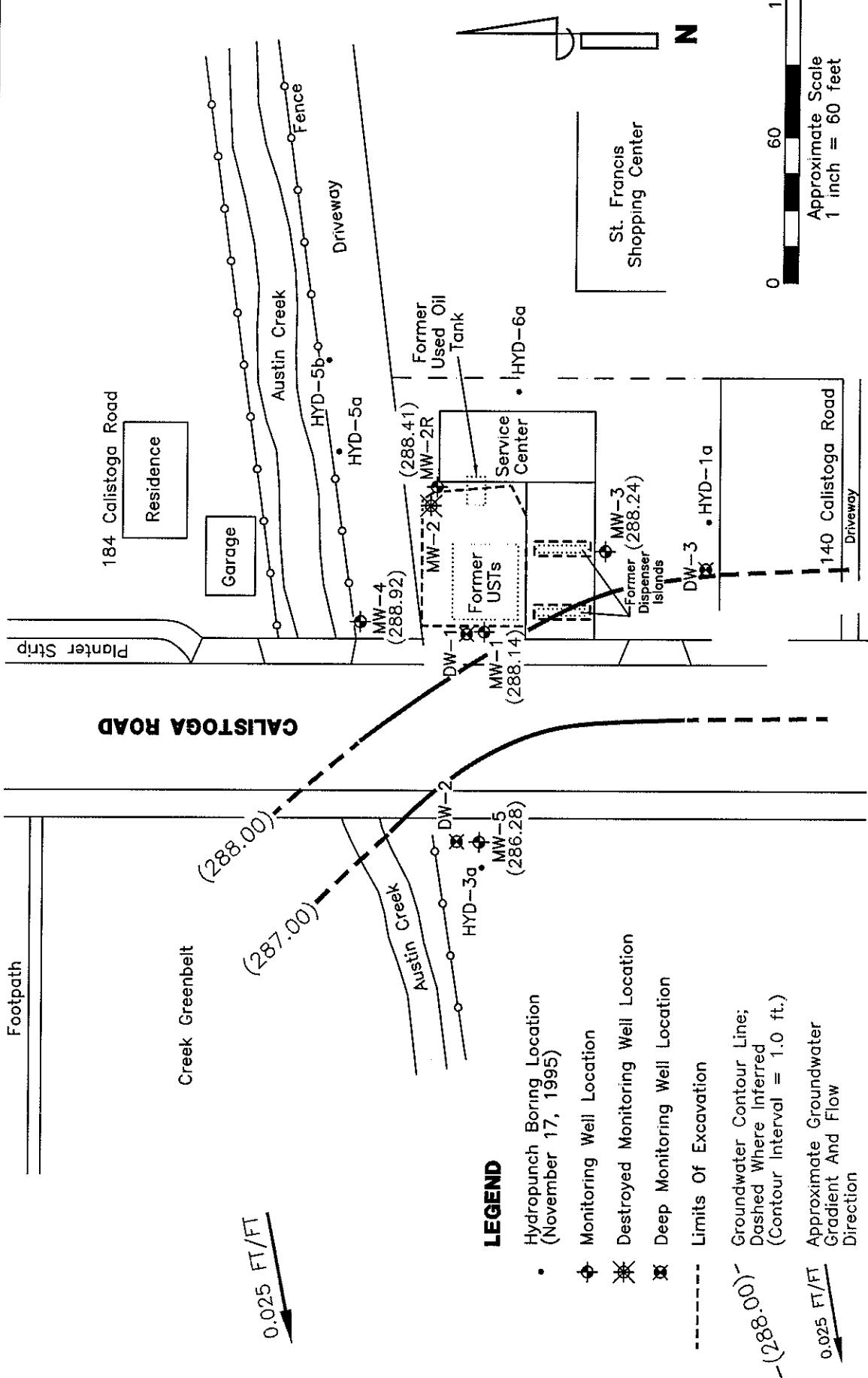
SITE PLAN MAP

FIGURE

2

Former Dave's Pit Stop No. 1
164 Calistoga Road
Santa Rosa, California

PROJECT NUMBER:
ERA02.028



**FIGURE
3**

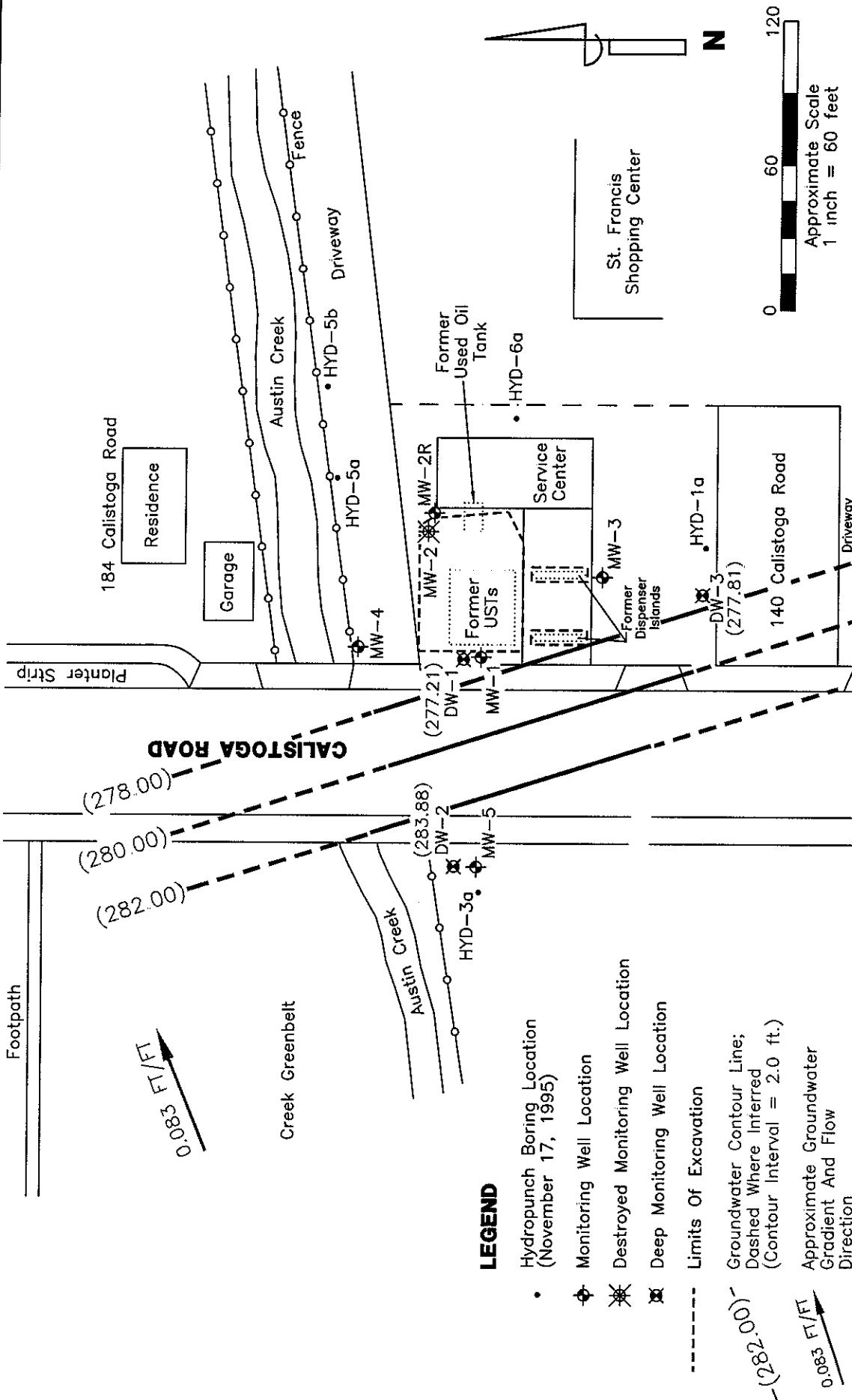
**SHALLOW-ZONE GROUNDWATER
CONTOUR MAP, DECEMBER 1, 2005**

REVISIONS



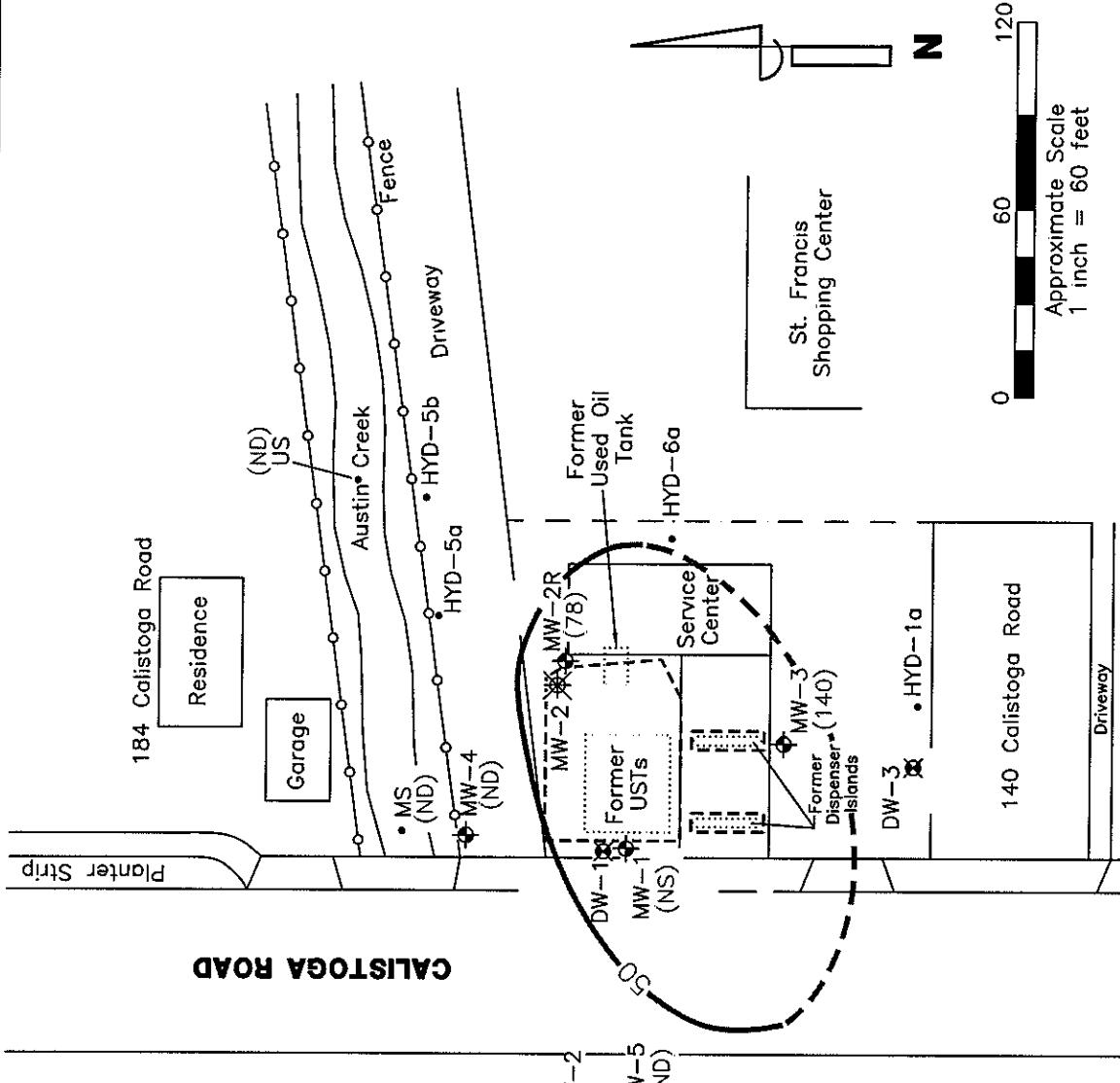
FIGURE
3
PROJECT NUMBER:
ERA02-028

Former Dave's Pit Stop No. 1
164 Calistoga Road
Santa Rosa, California



C. J. Curry		FIGURE 4	PROJECT NUMBER: ERA02.028
DATE:	1/18/06		
REVISIONS			
DEEP-ZONE GROUNDWATER CONTOUR MAP, DECEMBER 1, 2005			
Former Dave's Pit Stop No. 1 164 Calistoga Road Santa Rosa, California			

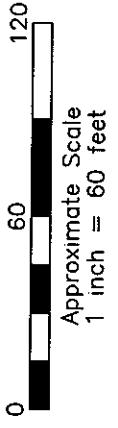
Footpath



LEGEND

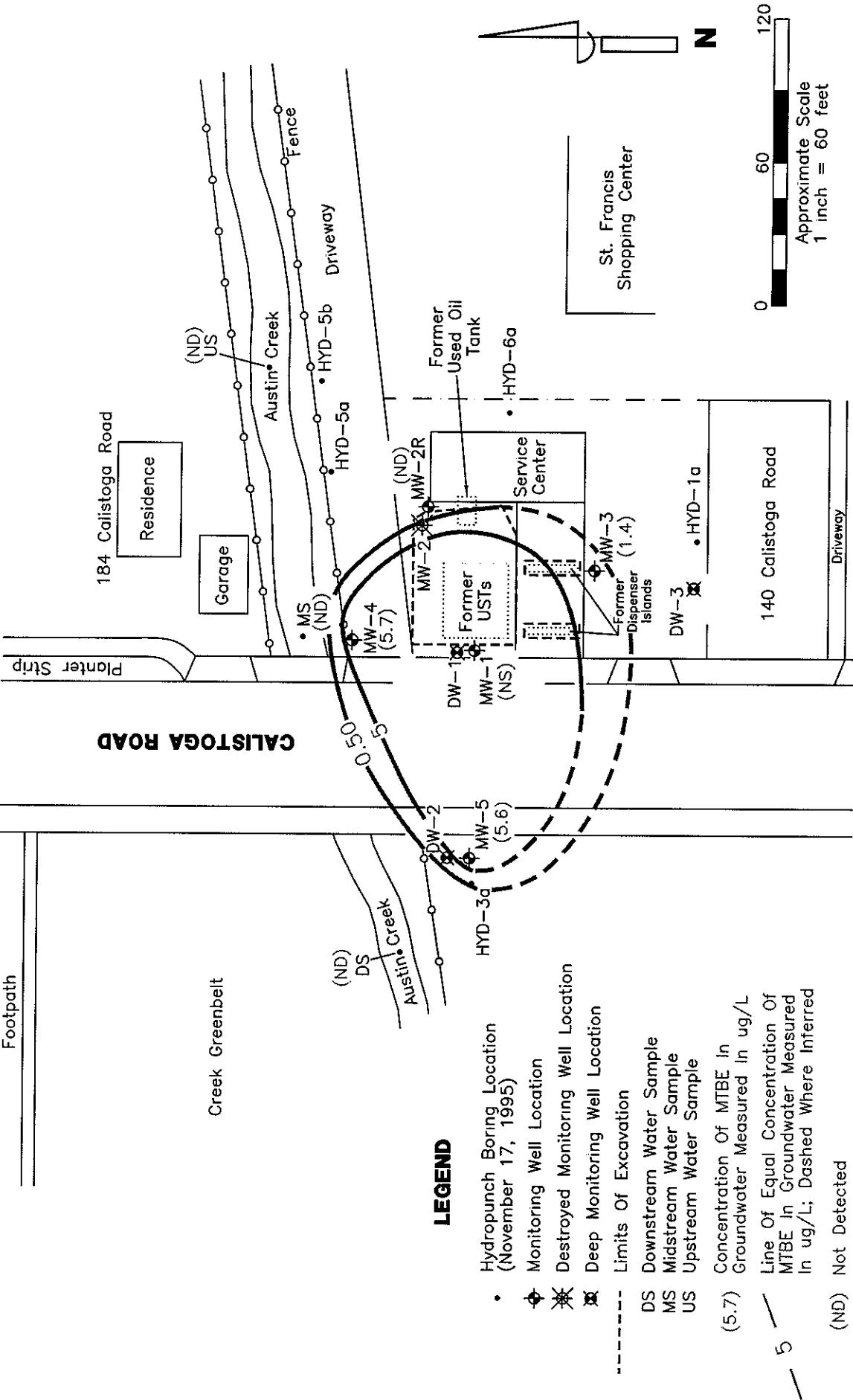
- Hydropunch Boring Location (November 17, 1995)
- ◆ Monitoring Well Location
- ☒ Destroyed Monitoring Well Location
- ☒ Deep Monitoring Well Location
- - - - - Limits Of Excavation
- ☒ Downstream Water Sample
- ☒ Midstream Water Sample
- ☒ Upstream Water Sample
- (140) Concentration Of TPHg Measured In ug/L
- Line Of Equal Concentration Of TPHg In Groundwater Measured In ug/L; Dashed Where Inferred
- (ND) Not Detected
- (NS) Not Sampled

DRAWN BY: J. Curry DATE: 1/18/06		SHALLOW-ZONE TPHg IN GROUNDWATER ISOCONCENTRATION MAP, DECEMBER 1, 2005		FIGURE 5
REVISIONS		Former Dave's Pit Stop No. 1 164 Calistoga Road Santa Rosa, California		PROJECT NUMBER: ERA02.028
				



Approximate Scale
1 inch = 60 feet

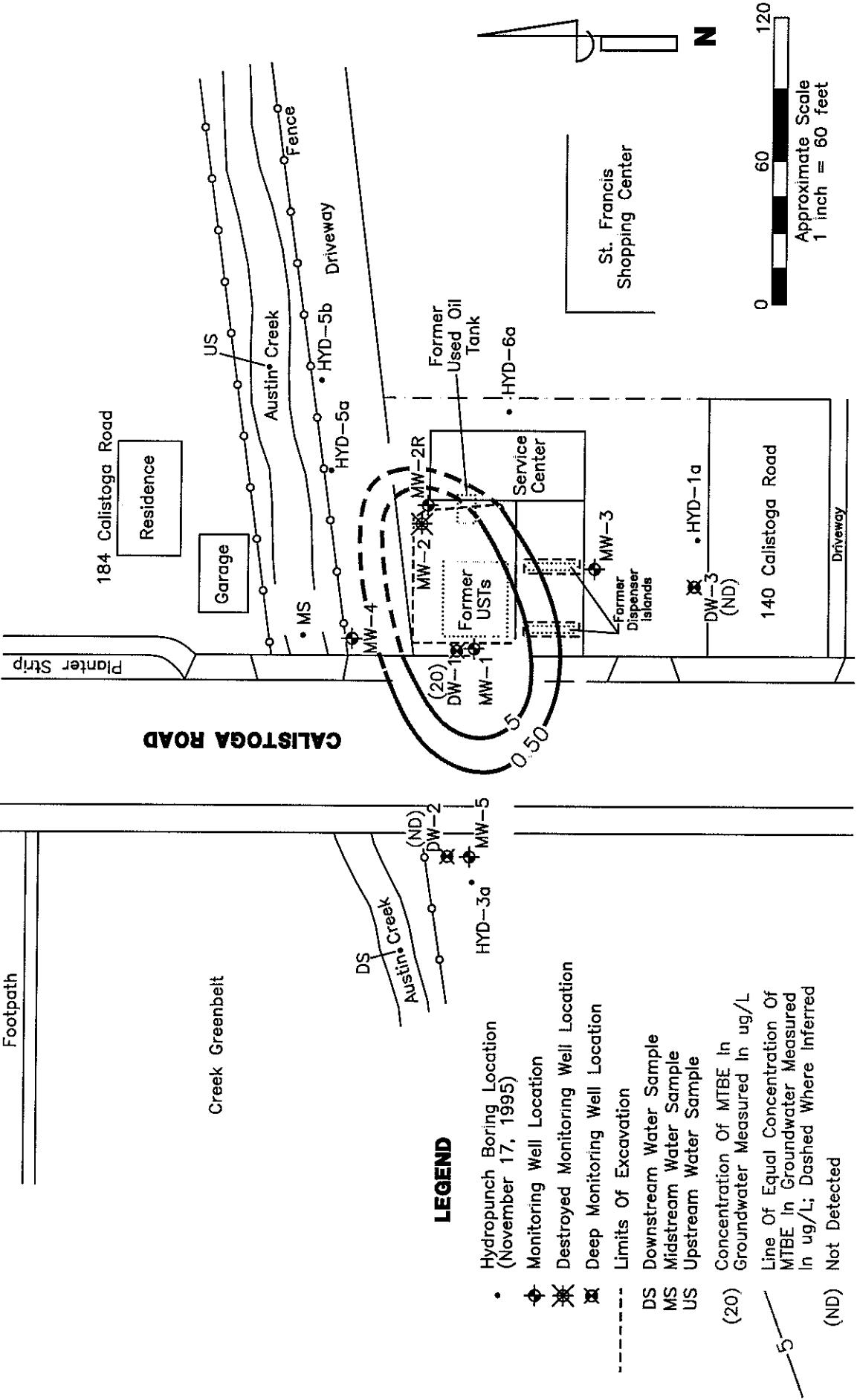
Footpath



DRAWN BY:		J. Curry	FIGURE	
DATE:		1/18/06	6	
REVISIONS				
APEX	ENVIROTECH, INC.		Former Dave's Pit Stop No. 1	
			164 Calistoga Road	
			Santa Rosa, California	

PROJECT NUMBER:
ERA02.028

Footpath



**DEEP-ZONE MTBE IN GROUNDWATER
ISOCONCENTRATION MAP, DECEMBER 1, 2005**

FIGURE
7

PROJECT NUMBER:
ERA02.028

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DATE:	1/18/06
REVISIONS	



Former Dave's Pit Stop No. 1
164 Calistoga Road
Santa Rosa, California

TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
Former Dave's Pit Stop #1
164 Calistoga Road
Santa Rosa, California

Well Number	Well Installation Date	*Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack Interval (feet)
MW-1	6/13/90	292.66	PVC	21	21	4	6 - 21	5 - 21
MW-2	6/13/90	293.22	PVC	---	---	---	---	---
MW-2R	10/1/99	293.12	PVC	18.5	18.5	2	4 - 18.5	3 - 18.5
MW-3	6/13/90	293.59	PVC	21	21	4	6 - 21	5 - 21
MW-4	1/11/96	292.70	PVC	20	20	2	5 - 20	4 - 20
MW-5	1/3/02	291.00	PVC	18	18	2	3 - 18	2 - 18
DW-1	1/3/02	292.82	PVC	40	40	2	35 - 40	34 - 40
DW-2	1/3/02	291.15	PVC	40	40	2	35 - 40	34 - 40
DW-3	1/3/02	293.20	PVC	40	40	2	35 - 40	34 - 40

Notes:

* Information reported by Clearwater Group, Inc. entitled *Additional Site Assessment Report*, Jan 29, 2002

MW-2 = Destroyed by overexcavation activities (Feb. 1999). Replaced by MW-2R.

--- = No data found in available reports

TOC = Top of Casing

PVC = Polyvinyl Chloride

DW = Deep Well

TABLE 2
GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop No.1
164 Calistoga Road
Santa Rosa, California
(all measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of Casing)	Depth to Groundwater	Groundwater Elevation
Shallow Zone:				
MW-1	12/1/05	292.66	4.52	288.14
MW-2R	12/1/05	293.12	4.71	288.41
MW-3	12/1/05	293.53	5.29	288.24
MW-4	12/1/05	292.70	3.78	288.92
MW-5	12/1/05	291.00	4.72	286.28
Deep Zone:				
DW-1	12/1/05	292.82	15.61	277.21
DW-2	12/1/05	291.15	7.27	283.88
DW-3	12/1/05	293.20	15.39	277.81

TABLE 3
GROUNDWATER ANALYTICAL DATA
Former Dave's Pit Stop No.1
164 Calistoga Road
Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
Shallow Zone:							
MW-1	12/1/05	---	---	---	---	---	---
MW-2R	12/1/05	78*	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3	12/1/05	140	<0.50	<0.50	<0.50	<0.50	1.4
MW-4	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	5.7
MW-5	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	5.6
Deep Zone:							
DW-1	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	20
DW-2	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-3	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
Creek:							
DS	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MS	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
US	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50

NOTES:

TPH - Total Petroleum Hydrocarbons

< -below laboratory detection limits

MTBE - Methyl Tertiary Butyl Ether

*TPH as gasoline does not exhibit a typical Gasoline

--- -Not analyzed

chromatographic pattern for sample

ug/L - micrograms per Liter

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop #1
164 Calisotga Road
Santa Rosa, California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Groundwater	Groundwater Elevation
Shallow Zone:				
MW-1	6/13/90	99.64	7.21	92.43
	11/14/90	---	---	---
	4/2/91	---	---	---
	8/1/91	---	---	---
	1/22/92	292.73	5.20	287.53
	9/14/92		8.17	284.56
	12/16/92		4.77	287.96
	3/9/93		3.94	288.79
	7/14/93		5.83	286.90
	9/23/93		8.34	284.39
	12/15/93		4.56	288.17
	1/11/96		5.05	287.68
	7/12/96		6.62	286.11
	1/7/97		3.55	289.18
	7/28/97		7.73	285.00
	2/9/98		2.30	290.43
	7/30/98		5.81	286.92
	3/16/99		5.38	287.35
	6/15/99	well box damage		
	10/1/99	292.66	7.73	284.93
	11/23/99		5.19	287.47
	2/16/00		2.30	290.36
	5/10/00		4.60	288.06
	7/11/00		6.03	286.63
	10/6/00		7.08	285.58
	3/29/01		4.66	288.00
	10/8/02		7.88	284.78
	1/3/02		2.24	290.42
	5/6/02		5.00	287.66
	12/19/02		---	---
	2/27/03		4.35	288.31
	6/24/03		5.36	287.30
	9/10/03		6.81	285.85
	12/17/03		blocked	
	2/19/04		2.46	290.20
	5/25/04		5.62	287.04
	8/12/04		7.56	285.10
	11/18/04		5.31	287.35
	2/25/05		3.91	288.75
	5/20/05		3.38	289.28
	9/13/05		6.97	285.69
	12/1/05		4.52	288.14

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop #1
164 Calisotga Road
Santa Rosa, California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Groundwater	Groundwater Elevation
MW-2	6/13/90	100 10	7.65	92.45
	11/14/90	---	---	---
	4/2/91	---	---	---
	8/1/91	---	---	---
	1/22/92	293 20	5.69	287.51
	9/14/92		8.57	284.63
	12/16/92		5.16	288.04
	3/9/93		4.56	288.64
	7/14/93		6.69	286.51
	9/23/93		8.77	284.43
	12/15/93		5.00	288.20
	1/11/96		5.51	287.69
	7/12/96		7.07	286.13
	1/7/97		4.10	289.10
	7/28/97		8.12	285.08
	2/9/98		2.86	290.34
	7/30/98		6.06	287.14
well destroyed				
MW-2R	10/1/99	293 12	8.02	285.10
	11/23/99		5.41	287.71
	2/16/00		3.07	290.05
	5/10/00		4.93	288.19
	7/11/00		6.15	286.97
	10/6/00		7.20	285.92
	3/29/01		4.97	288.15
	10/8/02		7.99	285.13
	1/3/02		2.78	290.34
	5/6/02		5.24	287.88
	12/19/02		3.66	289.46
	2/27/03		4.73	288.39
	6/24/03		5.53	287.59
	9/10/03		6.92	286.20
	12/17/03		4.56	288.56
	2/19/04		3.03	290.09
	5/25/04		6.72	286.40
	8/12/04		7.71	285.41
	11/18/04		5.43	287.69
	2/25/05		4.29	288.83
	5/20/05		3.88	289.24
	9/13/05		6.98	286.14
	12/1/05		4.71	288.41

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop #1
164 Calisotga Road
Santa Rosa, California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Groundwater	Groundwater Elevation
MW-3	6/13/90	100.44	7 85	92 59
	11/14/90	---	---	---
	4/2/91	---	---	---
	8/1/91	---	---	---
	1/22/92	293.53	5 80	287.73
	9/14/92		8 74	284.79
	12/16/92		5 12	288.41
	3/9/93		4 38	289.15
	7/14/93		6 79	286.74
	9/23/93		8 92	284.61
	12/15/93		4 95	288.58
	1/11/96		5 67	287.86
	7/12/96		7 08	286.45
	1/7/97		4 02	289.51
	7/28/97		8 20	285.33
	2/9/98		2 79	290.74
	7/30/98		6 21	287.32
	3/16/99		5 78	287.75
	6/15/99		6 05	287.48
	10/1/99		8 18	285.35
	11/23/99		5 87	287.66
	2/16/00		2 89	290.64
	5/10/00		5.11	288.42
	7/11/00		6 43	287.10
	10/6/00		7 20	286.33
	3/29/01		5.15	288.38
	10/8/02		8 26	285.27
	1/3/02		2 82	290.71
	5/6/02		5 57	287.96
	12/19/02		3 51	290.02
	2/27/03		4 78	288.75
	6/24/03		5 84	287.69
	9/10/03		7 19	286.34
	12/17/03		4 73	288.80
	2/19/04		2 88	290.65
	5/25/04		6 02	287.51
	8/12/04		7 94	285.59
	11/18/04		5 98	287.55
	2/25/05		4 16	289.37
	5/20/05		3 81	289.72
	9/13/05		7 27	286.26
	12/1/05		5 29	288.24

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop #1
164 Calisotga Road
Santa Rosa, California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Groundwater	Groundwater Elevation
MW-4	1/11/96	292.70	5 05	287.65
	7/12/96		6 84	285.86
	1/7/97		3 78	288.92
	7/28/97		7 89	284.81
	2/9/98		0 27	292.43
	7/30/98		4 96	287.74
	3/16/99		4 54	288.16
	6/15/99		5 70	287.00
	10/1/99		7 97	284.73
	11/23/99		5 23	287.47
	2/16/00		2 82	289.88
	5/10/00		4.72	287.98
	7/11/00		6 08	286.62
	10/6/00		7 37	285.33
	3/29/01		4 83	287.87
	10/8/02		8 02	284.68
	1/3/02		3.29	289.41
	5/6/02		5 11	287.59
	12/19/02		2 79	289.91
	2/27/03		4 69	288.01
	6/24/03		5 50	287.20
	9/10/03		6 95	285.75
	12/17/03		4.59	288.11
	2/19/04		3 62	289.08
	5/25/04		5 69	287.01
	8/12/04		7 69	285.01
	11/18/04		5 26	287.44
	2/25/05		4 44	288.26
	5/20/05		4 12	288.58
	9/13/05		7 01	285.69
	12/1/05		3 78	288.92
MW-5	1/3/02	291.00	1 92	289.08
	5/6/02		4 60	286.40
	12/19/02		2 50	288.50
	2/27/03		3 69	287.31
	6/24/03		4 84	286.16
	9/10/03		6 53	284.47
	12/17/03		blocked	
	2/19/04		2 03	288.97
	5/25/04		5 09	285.91
	8/12/04		7 90	283.10
	11/18/04		5 72	285.28
	2/25/05		3 63	287.37
	5/20/05		3 42	287.58
	9/13/05		7 02	283.98
	12/1/05		4 72	286.28

TABLE 4
HISTORICAL GROUNDWATER ELEVATION DATA
Former Dave's Pit Stop #1
164 Calisotga Road
Santa Rosa, California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation (top of casing)	Depth to Groundwater	Groundwater Elevation
Deep Zone:				
DW-1	1/3/02	292.82	0 30	292.52
	5/6/02		6 11	286 71
	12/19/02		3 88	288 94
	2/27/03		6 27	286 55
	6/24/03		20.52	272.30
	9/10/03		7 80	285.02
	12/17/03		4 97	287.85
	2/19/04		4.04	288.78
	5/25/04		6 43	286.39
	8/12/04		7 91	284.91
	11/18/04		14.35	278.47
	2/25/05		14.62	278.20
	5/20/05		13 60	279.22
	9/13/05		14 96	277.86
	12/1/05		15 61	277.21
DW-2	1/3/02	291.15	3 76	287.39
	5/6/02		4 51	286.64
	12/19/02		2 53	288.62
	2/27/03		3 11	288.04
	6/24/03		4 97	286.18
	9/10/03		6 58	284.57
	12/17/03		blocked	
	2/19/04		2 30	288.85
	5/25/04		5 04	286.11
	8/12/04		7 09	284.06
	11/18/04		5 48	285.67
	2/25/05		3 00	288.15
	5/20/05		2 92	288.23
	9/13/05		7 50	283.65
	12/1/05		7 27	283.88
DW-3	1/3/02	293.20	15 69	277.51
	5/6/02		16 32	276.88
	12/19/02		11 98	281.22
	2/27/03		18 45	274.75
	6/24/03		21 54	271.66
	9/10/03		21 81	271.39
	12/17/03		16 12	277.08
	2/19/04		3.97	289.23
	5/25/04		13 31	279.89
	8/12/04		15 18	278.02
	11/18/04		10 12	283.08
	2/25/05		11 48	281.72
	5/20/05		13 43	279.77
	9/13/05		14 01	279.19
	12/1/05		15 39	277.81

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA
Former Dave's Pit Stop #1
164 Calistoga Road
Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
Shallow Zone:							
MW-1	6/13/90	21 000	13,000	3,100	280	4,900	---
	11/14/90	26,000	2,400	1,700	1,100	2,800	---
	4/2/91	14,000	5,000	230	1,400	190	---
	8/1/91	18 000	6,300	<0.5	1,700	3,900	---
	1/22/92	10 000	2,500	150	650	1,900	---
	9/14/92	13,000	1,500	20	1,000	60	---
	12/16/92	15 000	2,200	190	800	1,400	---
	3/9/93	21 000	1,100	80	540	930	---
	7/14/93	18,000	420	60	500	2,000	---
	9/23/93	11,000	250	30	330	700	---
	12/15/93	2 200	71	4.9	57	100	---
	1/11/96	6 200	410	29	460	220	---
	7/12/96	---	---	---	---	---	---
	1/7/97	---	---	---	---	---	---
	7/28/97	13,000	700	<50	320	<200	67,000
	2/9/98	21 000	490	390	400	300	35,000
	7/30/98	24,000	640	160	150	40	37,000
	3/16/99	3 200	55	4	50	13	5,600
	6/15/99	---	---	---	---	---	---
	10/1/99	3 600	<25	<25	34	<25	1,100
	11/23/99	4,100	49	<5	42	<5	2,100
	2/16/00	5 900	50	<25	63	<25	4,000
	5/10/00	2,700	17	<5	<5	<5	2,000
	7/11/00	1 900	11	6.3	14	<5	970
	10/6/00	1,900	7	<2.5	7	<2.5	850
	3/29/01	2,200	20	<5.0	18	<5.0	1,800
	10/8/02	480	<2.0	<2.0	<2.0	<2.0	650
	1/3/02	2,600	5	<2.0	24	<2.0	890
	5/6/02	2 300	<5	<5	8.6	<10	630
	12/19/02	---	---	---	---	---	---
	2/27/03	2 900	1.2	0.84	13	0.72	160
	6/24/03	1,700	<0.50	<0.50	3.8	<0.50	29
	9/10/03	950	<0.50	<0.50	1.4	<0.50	18
	12/17/03	---	---	---	---	---	---
	2/19/04	3 500	1.2	0.74	11	0.69	110
	5/25/04	1,200	<0.50	<0.50	2.4	<0.50	21
	8/12/04	670	<0.50	<0.50	<0.50	<0.50	32
	11/18/04	870	<0.50	<0.50	1.3	<0.50	17
	2/25/05	2 200	0.54	<0.50	7.0	0.56	26
	5/20/05	2,400	<0.50	0.72	9.8	0.56	11
	9/14/05	700	<0.50	<0.50	<0.50	<0.50	11
	12/1/05	---	---	---	---	---	---

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA
Former Dave's Pit Stop #1
164 Calistoga Road
Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
MW-2	6/13/90	7,700	3,900	520	270	910	---
	11/14/90	3,600	1,200	65	160	310	---
	4/2/91	30,000	4,600	3,900	1,100	5,600	---
	8/1/91	11,000	170	90	450	1,400	---
	1/22/92	FLH	FLH	FLH	FLH	FLH	FLH
	9/14/92	4,800	440	10	460	100	---
	12/16/92	4,900	430	64	130	530	---
	3/9/93	7,300	160	81	330	870	---
	7/14/93	770	75	12	36	16	---
	9/23/93	1,400	32	20	90	6	---
	12/15/93	9,200	100	14	110	140	---
	1/11/96	900	370	100	18	30	---
	7/12/96	---	---	---	---	---	---
	1/7/97	---	---	---	---	---	---
	7/28/97	3,800	130	70	110	330	30,000
	2/9/98	80,000	700	200	600	1,400	220,000
	7/30/98	18,000	200	460	56	120	19,000
	well destroyed						
MW-2R	10/1/99	70	<0.5	<0.5	<0.5	<0.5	28
	11/23/99	110	<0.5	<0.5	<0.5	<0.5	130
	2/16/00	1,100	10	<5	<5	<5	2,500
	5/10/00	88	<0.5	<0.5	<0.5	<0.5	37
	7/11/00	170	0.5	<0.5	<0.5	<0.5	35
	10/6/00	130	<0.5	<0.5	<0.5	<0.5	48
	3/29/01	52	<0.5	<0.5	<0.5	<0.5	20
	10/8/02	160	<0.5	<0.5	<0.5	<0.5	10
	1/3/02	120	7.5	<0.5	<0.5	<0.5	140
	5/6/02	91	<0.5	<0.5	<0.5	<1	<5
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	11
	2/27/03	71	<0.50	<0.50	<0.50	<0.50	3.6
	6/24/03	87	<0.50	<0.50	<0.50	<0.50	1.1
	9/10/03	69	<0.50	<0.50	<0.50	<0.50	1.9
	12/17/03	<50	<0.50	<0.50	<0.50	<0.50	2.2
	2/19/04	53	0.77	<0.50	<0.50	<0.50	6.4
	5/25/04	81	<0.50	<0.50	<0.50	<0.50	<0.50
	8/12/04	<50	<0.50	<0.50	<0.50	<0.50	1.9
	11/18/04	83*	<0.50	<0.50	<0.50	<0.50	0.68
	2/25/05	88*	<0.50	<0.50	<0.50	<0.50	1.4
	5/20/05	52*	<0.50	<0.50	<0.50	<0.50	0.64
	9/13/05	89*	<0.50	<0.50	<0.50	<0.50	0.62
	12/1/05	78*	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA

Former Dave's Pit Stop #1
 164 Calistoga Road
 Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
MW-3	6/13/90	310	19	ND	0.5	1.4	—
	11/14/90	450	11	39	18	37	—
	4/2/91	710	18	<0.5	12	19	—
	8/1/91	470	10	<0.5	3	4.4	—
	1/22/92	690	9.6	<0.5	14	31	—
	9/14/92	530	2.9	<10	1.1	0.9	—
	12/16/92	850	6.1	2.8	6.0	8.1	—
	3/9/93	780	<0.5	<0.5	8.7	9.6	—
	7/14/93	290	11	1.4	2.4	1.6	—
	9/23/93	320	3.40	ND	ND	ND	—
	12/15/93	510	4.80	11	2.3	3.0	—
	1/11/96	1,000	7.00	2.0	18	29	—
	7/12/96	—	—	—	—	—	—
	1/7/97	—	—	—	—	—	—
	7/28/97	370	0.70	0.8	<0.5	<2	42
	2/9/98	1,800	30	67	22	50	2,100
	7/30/98	470	0.95	1.0	<0.5	1.6	110
	3/16/99	890	6.9	1.1	0.74	2.1	270
	6/15/99	350	0.62	<0.5	<0.5	<0.5	72
	10/1/99	220	1.2	0.5	<0.5	<0.5	46
	11/23/99	480	4.9	<2.5	<2.5	<2.5	340
	2/16/00	320	2.7	1.0	0.69	2.4	200
	5/10/00	230	1.1	<0.5	<0.5	<0.5	62
	7/11/00	200	1.1	<0.5	<0.5	<0.5	31
	10/6/00	290	1.4	<0.5	<0.5	<0.5	18
	3/29/01	230	2.0	0.6	<0.5	<0.5	76
	10/8/02	140	<0.5	<0.5	<0.5	<0.5	8
	1/3/02	99	<0.5	<0.5	<0.5	<0.5	150
	5/6/02	260	<0.5	<0.5	<0.5	<1	18
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	360
	2/27/03	130	<0.50	<0.50	<0.50	<0.50	67
	6/24/03	93	<0.50	<0.50	<0.50	<0.50	16
	9/10/03	120	<0.50	<0.50	<0.50	<0.50	3.9
	12/17/03	87	<0.50	<0.50	<0.50	<0.50	23
	2/19/04	89	<0.50	<0.50	<0.50	<0.50	8.7
	5/25/04	100	<0.50	<0.50	<0.50	<0.50	3.7
	8/12/04	77	<0.50	<0.50	<0.50	<0.50	2.5
	11/18/04	120	<0.50	<0.50	<0.50	<0.50	4.2
	2/25/05	69	<0.50	<0.50	<0.50	<0.50	4.3
	5/20/05	140*	<0.50	<0.50	<0.50	<0.50	2.7
	9/13/05	110*	<0.50	<0.50	<0.50	<0.50	1.0
	12/1/05	110	<0.50	<0.50	<0.50	<0.50	1.4

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA
Former Dave's Pit Stop #1
164 Calistoga Road
Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
MW-4	1/11/96	<50	10	0.8	<0.5	<2	---
	7/12/96	80	0.6	<0.5	<0.5	<2	1,800
	1/7/97	300	3.0	5.0	<3	<10	1,600
	7/28/97	<300	<3	<3	<3	<10	760
	2/9/98	1,200	10	8.0	9.0	20	2,800
	7/30/98	1,500	<0.5	<0.5	<0.5	0.54	1,200
	3/16/99	130	<0.5	1.0	<0.5	0.64	980
	6/15/99	<500	<5.0	<5.0	<5.0	<5.0	700
	10/1/99	400	<2.5	<2.5	<2.5	<2.5	520
	11/23/99	310	<2.5	<2.5	<2.5	<2.5	520
	2/16/00	580	<5.0	<5.0	<5.0	<5.0	440
	5/10/00	680	<0.5	<0.5	<0.5	<0.5	850
	7/11/00	430	<2.5	3.1	<2.5	<2.5	610
	10/6/00	360	<1.0	<1.0	<1.0	<1.0	53
	3/29/01	340	<0.5	<0.5	<0.5	<0.5	420
	10/8/02	140	<0.5	<0.5	<0.5	<0.5	610
	1/3/02	320	<0.5	<0.5	<0.5	<0.5	240
	5/6/02	620	<0.5	<0.5	<0.5	<0.5	620
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	7.4
	2/27/03	300	<0.50	<0.50	<0.50	<0.50	250
	6/24/03	350	<0.50	<0.50	<0.50	<0.50	250
	9/10/03	220	<0.50	<0.50	<0.50	<0.50	150
	12/17/03	130	<0.50	<0.50	<0.50	<0.50	73
	2/19/04	280	<0.50	<0.50	<0.50	<0.50	170
	5/25/04	210	<0.50	<0.50	<0.50	<0.50	150
	8/12/04	130	<0.50	<0.50	<0.50	<0.50	100
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	15
	2/25/05	240*	<0.50	<0.50	<0.50	<0.50	85
	5/20/05	250*	<0.50	<0.50	<0.50	<0.50	99
	9/13/05	150*	<0.50	<0.50	<0.50	<0.50	55
	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	5.7
MW-5	1/3/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	5/6/02	<50	<0.5	<0.5	<0.5	<1	<5
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	<5.0
	2/27/03	<50	<0.50	<0.50	<0.50	<0.50	5.1
	6/24/03	84	<0.50	<0.50	<0.50	<0.50	4.9
	9/10/03	<50	<0.50	<0.50	<0.50	<0.50	6.1
	12/17/03	--	--	--	--	--	--
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	52	<0.50	<0.50	<0.50	<0.50	3.5
	8/12/04	<50	<0.50	<0.50	<0.50	<0.50	3.8
	11/18/04	64	<0.50	2.2	<0.50	<0.50	7.0
	2/25/05	<50	<0.50	1.1	<0.50	<0.50	0.82
	5/20/05	<50	<0.50	3.2	<0.50	<0.50	2.1
	9/13/05	<50	<0.50	<0.50	<0.50	<0.50	4.0
	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	5.6

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA
Former Dave's Pit Stop #1
164 Calistoga Road
Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
Deep Zone:							
DW-1	1/3/02	370	<1	<1	<1	<1	380
	5/6/02	570	<1	<1	<1	<2	300
	12/19/02	98	<0.50	<0.50	<0.50	<1.0	200
	2/27/03	84	<0.50	<0.50	<0.50	<0.50	150
	6/24/03	87	<0.50	<0.50	<0.50	<0.50	150
	9/10/03	<50	<0.50	<0.50	<0.50	<0.50	110
	12/17/03	<50	<0.50	<0.50	<0.50	<0.50	70
	2/19/04	67	<0.50	<0.50	<0.50	<0.50	63
	5/25/04	<50	<0.50	<0.50	<0.50	<0.50	50
	8/12/04	<50	<0.50	<0.50	<0.50	<0.50	38
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	34
	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	28
	5/20/05	<50	<0.50	<0.50	<0.50	<0.50	29
	9/13/05	<50	<0.50	<0.50	<0.50	<0.50	23
	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	20
DW-2	1/3/02	<50	<0.5	<0.5	<0.5	<0.5	0.68
	5/6/02	<50	<0.5	<0.5	<0.5	<1	<5
	12/19/02	---	---	---	---	---	---
	2/27/03	<50	<0.50	<0.50	<0.50	<0.50	1.4
	6/24/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/10/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/17/03	---	---	---	---	---	---
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	8/12/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/20/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/13/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
DW-3	1/3/02	<50	<0.5	<0.5	<0.5	<0.5	0.76
	5/6/02	<50	<0.5	<0.5	<0.5	<1	<5
	12/19/02	<50	<0.50	<0.50	<0.50	<1.0	<5.0
	2/27/03	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	6/24/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/10/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/17/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/19/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/25/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	8/12/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	11/18/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/20/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/13/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 5
HISTORICAL GROUNDWATER ANALYTICAL DATA
Former Dave's Pit Stop #1
164 Calistoga Road
Santa Rosa, California

Monitoring Well	Date Collected	TPH as Gasoline (ug/L)	Aromatic Volatile Organics				MTBE (8260) (ug/L)
			Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	
Creek	DS	6/24/03 <50	<0.50	<0.50	<0.50	<0.50	1.9
		9/10/03 Creek dry					
		12/17/03 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		2/19/04 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		5/25/04 <50	<0.50	<0.50	<0.50	<0.50	1.3
		11/18/04 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		2/25/05 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		5/20/05 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		9/13/05 Creek dry					
		12/1/05 <50	<0.50	<0.50	<0.50	<0.50	<0.50
	MS	6/24/03 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		9/10/03 Creek dry					
		12/17/03 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		2/19/04 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		5/25/04 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		11/18/04 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		2/25/05 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		5/20/05 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		9/13/05 Creek dry					
		12/1/05 <50	<0.50	<0.50	<0.50	<0.50	<0.50
	US	6/24/03 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		9/10/03 Creek dry					
		12/17/03 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		2/19/04 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		5/25/04 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		11/18/04 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		2/25/05 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		5/20/05 <50	<0.50	<0.50	<0.50	<0.50	<0.50
		9/13/05 Creek dry					
		12/1/05 <50	<0.50	<0.50	<0.50	<0.50	<0.50
Domestic Well	2/25/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50

NOTES:

TPH - Total Petroleum Hydrocarbon:

< -below laboratory detection limits

MTBE - Methyl Tertiary Butyl Ether

TPH as gasoline does not exhibit a typical Gasoline

--- -Not analyzed

chromatographic pattern for sample

ug/L - micrograms per Liter

APPENDIX A

APEX STANDARD OPERATING PROCEDURES

APEX ENVIROTECH, INC.
STANDARD OPERATING PROCEDURES
Quarterly Monitoring Reports

SOP – 4
SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES

Sample identification and chain-of-custody procedures ensure sample integrity as well as document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, other pertinent field observations also recorded on the field excavation or boring logs.

Chain-of-custody forms are used to record possession of the sample from time of collection to arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

SOP – 5
LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL

In addition to routine instrument calibration replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

- 1 Participation in state and federal laboratory accreditation/certification programs;
- 2 Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
- 3 Standard operating procedures describing routine and periodic instrument maintenance;
- 4 "out-of-Control"/Corrective Action documentation procedures; and,
- 5 Multi-level review of raw data and client reports

SOP – 7
GROUNDWATER PURGING AND SAMPLING

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize, a maximum of ten wetted-casing volumes of groundwater have been recovered, or the well is bailed dry.

When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC bailer, or stainless steel bladder pump with a Teflon bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

SOP – 12
MEASURING LIQUID LEVELS USING WATER LEVEL METER OR INTERFACE PROBE

Field equipment used for liquid-level gauging typically includes the measuring instrument (water-level meter or interface probe and product bailer(s)). The field kit also includes cleaning supplies (buckets, solution, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurements, the instrument tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "Measured Total Depth" of the well.

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indication of the DTW measurement is made accordingly. The steady tone indicates floating liquid hydrocarbons (FLH). In this case, the depth-to-product (DTP) indication and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When FLH are indicated by the probe's response, a product bailer is lowered partially through the FLH water interface to confirm the FLH thickness, particularly in cases where the FLH layer is quite thin. This measurement is recorded on the data sheet as "FLH thickness".

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

APPENDIX B

FIELD DATA SHEETS



Groundwater Level Data Sheet

Location Santa Rosa, CA
Date 12/1/05
Recorded By RCM

Well Volume Calculation:
 $(2' \times 0.15) (4' \times 0.65)$



Monitoring Data

Project:

Project Number: EEA02 028

Date: 12/1/05

Recorded By: PCM

WELL	TIME	TEMP (deg C)	pH	COND. (µS/cm)	DISSOLVED OXYGEN	TOTAL VOLUME REMOVED	COMMENTS/OBSERVATIONS
MW-2F	1328	18.5	7.0	193		2.25	odor & shear
MW-3	1333	18.7	6.7	258		4.75	
MW-3	1337	18.9	6.6	576		7	sample @ 1635 odor
MW-3	1352	20.1	6.4	548		9	
MW-2	1402	20.4	6.5	426		18	
MW-1	1411	20.7	6.5	578		27	sampled @ 1645
MW-4	1444	17.5	6.8	95		2.50	
MW-4	1449	18.0	6.5	56		5.25	
MW-4	1454	18.2	6.3	145		7.75	sampled @ 1655 PCM ref 165
MW-1						9	unable to purge due to surface H2O flowing into well box
						18	
						27	sampled @ 1705 PCM sampled 1705

TEMPH.XLS
4/1/97

E O

APPENDIX C

LABORATORY ANALYTICAL REPORT AND

CHAIN-OF-CUSTODY FORM



**2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808**

ANALYTICAL

Project Contact (Hardcopy or PDF To):

Kelli Ealker

California EDF Report?

Company / Address:		11244 Apex Envirotech, Inc. 1901 Whites Wy., Gold River, CA 95670		Recommended but not mandatory to complete this section:		
Sampling Company Log Code:		APEF		Sampling Company Log Code:		
Phone No.:		Fax No.:	Global ID:	Global ID:		
Project Number:		P.O. No.:	EDF Deliverable To (Email Address):	EDF Deliverable To (Email Address):		
Project Name:		cmartin@apexenvirotech.com		cmartin@apexenvirotech.com		
Project Address:		Former Dave's Pit Stop #1		Sampler Signature: <i>L. M. Martin</i>		
Sample Designation	Date	Time	Sampling	Container	Preservative	Matrix
Calistoga Road, Santa Rosa	12/1/05	(050)	X	X	X	X
Sample Designation						
DS						

4786

20

Chain-of-Custody Record and Analysis Request

Page 2 of 2

Custody Record and Analysis Request



Report Number : 47226

Date : 12/9/2005

Kelly Felker
Apex Envirotech Inc.
11244 Pyrites Way
Gold River, CA 95670-4481

Subject : 10 Water Samples
Project Name : Former Dave's Pit Stop #1
Project Number : ERA02.028-QM

Dear Ms. Felker,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Joel Kiff".

Joel Kiff



Report Number : 47226

Date : 12/9/2005

Subject : 10 Water Samples
Project Name : Former Dave's Pit Stop #1
Project Number : ERA02 028-QM

Case Narrative

Hydrocarbons reported as TPH as Gasoline do not exhibit a typical Gasoline chromatographic pattern for sample MW-2R

Approved By:

Jde Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



Report Number : 47226

Date : 12/9/2005

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Sample : MW-2R

Matrix : Water

Lab Number : 47226-01

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	78	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Surrogate)	100		% Recovery	EPA 8260B	12/7/2005
4-Bromofluorobenzene (Surrogate)	98.2		% Recovery	EPA 8260B	12/7/2005

Sample : MW-3

Matrix : Water

Lab Number : 47226-02

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-butyl ether (MTBE)	1.4	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	140	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Surrogate)	101		% Recovery	EPA 8260B	12/7/2005
4-Bromofluorobenzene (Surrogate)	99.0		% Recovery	EPA 8260B	12/7/2005

Approved By:

Joel Kiff



Report Number : 47226

Date : 12/9/2005

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Sample : MW-4

Matrix : Water

Lab Number : 47226-03

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-butyl ether (MTBE)	5.7	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	12/7/2005
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	12/7/2005

Sample : MW-5

Matrix : Water

Lab Number : 47226-04

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Methyl-t-butyl ether (MTBE)	5.6	0.50	ug/L	EPA 8260B	12/8/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/8/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/8/2005
4-Bromofluorobenzene (Surr)	93.4		% Recovery	EPA 8260B	12/8/2005

Approved By:

Joel Kiff

2795 2nd St , Suite 300 Davis, CA 95616 530-297-4800



Report Number : 47226

Date : 12/9/2005

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Sample : DW-1

Matrix : Water

Lab Number : 47226-05

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-butyl ether (MTBE)	20	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	12/7/2005
4-Bromofluorobenzene (Surr)	99.3		% Recovery	EPA 8260B	12/7/2005

Sample : DW-2

Matrix : Water

Lab Number : 47226-06

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	12/7/2005
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	12/7/2005

Approved By:

Joel Kiff



Report Number : 47226

Date : 12/9/2005

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Sample : DW-3

Matrix : Water

Lab Number : 47226-07

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Surrogate)	99.2		% Recovery	EPA 8260B	12/7/2005
4-Bromofluorobenzene (Surrogate)	98.4		% Recovery	EPA 8260B	12/7/2005

Sample : US

Matrix : Water

Lab Number : 47226-08

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Surrogate)	100		% Recovery	EPA 8260B	12/7/2005
4-Bromofluorobenzene (Surrogate)	98.1		% Recovery	EPA 8260B	12/7/2005

Approved By:

Joel Kiff



Report Number : 47226

Date : 12/9/2005

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Sample : MS

Matrix : Water

Lab Number : 47226-09

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Surrogate)	100		% Recovery	EPA 8260B	12/7/2005
4-Bromofluorobenzene (Surrogate)	98.4		% Recovery	EPA 8260B	12/7/2005

Sample : DS

Matrix : Water

Lab Number : 47226-10

Sample Date : 12/1/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Surrogate)	100		% Recovery	EPA 8260B	12/7/2005
4-Bromofluorobenzene (Surrogate)	97.6		% Recovery	EPA 8260B	12/7/2005

Approved By:

Joel Kiff

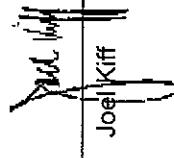
QC Report : Method Blank Data**Project Name : Former Dave's Pit Stop #1****Project Number : ERA02.028-QM**

Report Number : 472226

Date : 12/9/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Methyl-t-Butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/8/2005
Toluene - d8 (Sur)	96.6	%		EPA 8260B	12/8/2005
4-Bromofluorobenzene (Sur)	99.1	%		EPA 8260B	12/8/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-Butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Sur)	101	%		EPA 8260B	12/7/2005
4-Bromofluorobenzene (Sur)	97.4	%		EPA 8260B	12/7/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
Methyl-t-Butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/8/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/8/2005
Toluene - d8 (Sur)	96.6	%		EPA 8260B	12/8/2005
4-Bromofluorobenzene (Sur)	99.1	%		EPA 8260B	12/8/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
Methyl-t-Butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	12/7/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/7/2005
Toluene - d8 (Sur)	101	%		EPA 8260B	12/7/2005
4-Bromofluorobenzene (Sur)	97.4	%		EPA 8260B	12/7/2005



Approved By: Joel Kiff

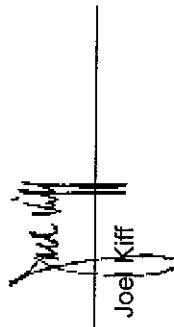
KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Project Name : Former Dave's Pit Stop #1

Project Number : ERA02.028-QM

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.		
									Duplicate Spiked Sample Value	Duplicate Spiked Sample Value	Duplicate Spiked Sample Percent Recov.
Benzene	47226-04	<0.50	40.0	39.8	43.3	42.8	ug/L	EPA 8260B	12/8/05	108	107
Toluene	47226-04	<0.50	40.0	39.8	42.9	42.4	ug/L	EPA 8260B	12/8/05	107	106
Tert-Butanol	47226-04	<5.0	200	199	211	204	ug/L	EPA 8260B	12/8/05	106	102
Methyl-t-Butyl Ether	47226-04	5.6	40.0	39.8	46.0	44.1	ug/L	EPA 8260B	12/8/05	101	96.6
Benzene	47226-06	<0.50	40.0	40.0	41.0	39.6	ug/L	EPA 8260B	12/7/05	102	99.0
Toluene	47226-06	<0.50	40.0	40.0	41.4	40.0	ug/L	EPA 8260B	12/7/05	103	100
Tert-Butanol	47226-06	13	200	200	171	195	ug/L	EPA 8260B	12/7/05	78.9	90.9
Methyl-t-Butyl Ether	47226-06	<0.50	40.0	40.0	44.3	43.6	ug/L	EPA 8260B	12/7/05	111	109



Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

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QC Report : Laboratory Control Sample (LCS)

Report Number : 47226
Date : 12/9/2005

Project Name : **Former Dave's Pit Stop #1**

Project Number : **ERA02.028-QM**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/8/05	103	70-130
Toluene	40.0	ug/L	EPA 8260B	12/8/05	99.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/8/05	104	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/8/05	100	70-130
Benzene	40.0	ug/L	EPA 8260B	12/7/05	98.0	70-130
Toluene	40.0	ug/L	EPA 8260B	12/7/05	100	70-130
Tert-Butanol	200	ug/L	EPA 8260B	12/7/05	86.9	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	12/7/05	115	70-130

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Approved By:

Joe Kiff

APPENDIX D

CONCENTRATION VERSUS TIME TREND PLOTS

